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(54) Title: RECOMBINANT ANTIBODY DIRECTED AGAINST HUMAN SPERM ANTIGEN

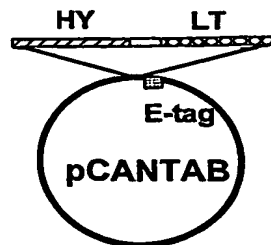
### Cloning of RASA

S19 Heavy chain      S19 Light chain

Polymerase Chain Reaction with Linker Primers

Linker

Clone into vector



(57) Abstract: The invention relates to a recombinant miniantibody derivative of the monoclonal antibody, S19 and its use as a contraceptive and diagnostic agent. Similar to the native S19 antibody, the recombinant single-chain miniantibody forms of S19 strongly bind to their cognate antigen, SAGA-1, displayed on the surface of human sperm.

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